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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,363	07/31/2003	Bryan Youngpeter	10541-1658	2153
57444	7590 07/03/2006		EXAMINER	
AUTOMOTIVE COMPONENTS HOLDINGS LLC			GILLAN, RYAN P	
C/O MACMILLAN, SOBANSKI & TODD, LLC ONE MARITIME PLAZA, FIFTH FLOOR 720 WATER STREET TOLEDO, OH 43604-1853			ART UNIT	PAPER NUMBER
			3746	
			DATE MAILED: 07/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summer	10/631,363	YOUNGPETER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ryan P. Gillan	3746			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 01 h	<u>1ay 2006</u> .				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 2.4.5.7.8 and 10-14 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 2. 4. 5. 7. 8 and 10-14 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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### **DETAILED ACTION**

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## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/1/06 has been entered.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2, 4, 5, 7, 8 and 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimura et al. (5,860,797) in view of Yokota et al. (6,041,883). Fujimura et al. teach a housing (1) defining a bore (Clearly seen in figure 2) having an axis, a fluid discharge port (18a) communicating with the bore at a first axial location, and a fluid bypass port (1a) at a second axial location having an opening communicating with the bore at a second axial location; said bore comprising a first bore end and a second bore end and a pump outlet passage communicating with the bore at the first end (clearly seen in figure 3); a sleeve (18) secured onto the housing at said second bore end and extending along the axis away from the housing (clearly seen

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in figure 3); a flow control valve (14) slideably received in the bore for opening and closing the inlet (col. 3 lines 40-43), said flow control valve defining an inlet for opening the fluid bypass port for admitting fluid thereto (col. 3 lines 40-54); the inlet having a size dependent upon the position of the flow control valve within the bore, wherein the flow control valve slides axially to vary the size to the inlet through which flow can enter the bypass port from the bore and contains a means for biasing the valve in the open position (col. 3 lines 40-54), the biasing means the means comprising a coil spring (17) including a first end and a second end axially opposite the first end; pumping elements are disposed within the housing and communicating with the fluid bypass port (clearly seen in figure 2), for pumping fluid to the fluid discharge port, said pumping elements comprising a cam chamber (12) and a rotor (5) having retractable vanes (11) disposed within the cam chamber, a plunger (16) adjacent the second bore end and contacting the flow control valve located within the sleeve, and axially displaceable along the axis in response to the force produced by the spring, for moving the flow control valve along the axis (clearly seen in figure 3); a bracket (integral with the housing) secured to the second bore end and formed with an axial passage and a second bore, the sleeve secured to the bracket (clearly seen in figure 3); a hollow rod (16a) secured to the flow control valve, extending through the axial passage of the bracket and into the sleeve, providing an annular space between the sleeve and a radial outer surface of the rod (clearly seen in figure 3).

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3. Fujimura et al. fail to teach a sleeve secured onto the housing at said second bore end and extending along the axis away from the housing, a plunger disposed

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within the sleeve, axially displaceable along the axis and operatively connected to the flow control valve, and an electromagnetic coil disposed about the sleeve and adapted for applying an electromagnetic field to the plunger to vary the size of the inlet and thereby regulate the flow of fluid into the fluid bypass port; a coil spring located in the sleeve, seated against displacement relative to the housing at the first end and seated against the plunger at the second end, wherein the spring urges the flow control valve to open the inlet bypass port; the sleeve including an end cap, and wherein plunger includes a rear end adjacent the end cap and a pressure equalization passage extending from the rear end and communicating with fluid adjacent the flow control valve.

Yokota et al. (6,041,883) teach a sleeve (4, integral with the actuator) secured 4. onto the housing at said second bore end and extending along the axis away from the housing (clearly seen in figure 1), a plunger (37) disposed within the sleeve, axially displaceable along the axis and operatively connected to the flow control valve (14), and an electromagnetic coil (4) disposed about the sleeve and adapted for applying an electromagnetic field to the plunger to vary the size of the inlet and thereby regulate the flow of fluid into the fluid bypass port (col. 6 lines 44-67); a coil spring (17) located in the sleeve, seated against displacement relative to the housing at the first end and seated against the plunger at the second end (clearly seen in figure 1), wherein the spring urges the flow control valve to open the inlet bypass port (col.6 lines 44-67); the sleeve including an end cap (36), and wherein plunger includes a rear end adjacent the end cap and a pressure equalization passage (39) extending from the rear end and

communicating with fluid adjacent the flow control valve. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fujimora et al. by replacing the hydraulic actuation with an electromagnetic coil of Yokota et al. operably connected to the plunger to regulate the flow of liquid into the fluid bypass port as a means of electronically controlling the valve in response to turning maneuvers of a vehicle, using the steering angle to calibrate minimum or maximum flow requirements (col. 8 lines 45-50).

#### Response to Arguments

5. The applicant's amendments filed on 5/1/06 have been considered, but do not overcome the prior art of record, as cited above.

#### Conclusion

6. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan P. Gillan whose telephone number is 571-272-8381. The examiner can normally be reached on 8:00 am - 4:30 pm; Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Thorpe can be reached on 571-272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KPG - 0^ TAE JUNKIM
PRIMARY EXAMINER